```
=> s strontium hexaferrite
        200974 STRONTIUM
             4 STRONTIUMS
        200975 STRONTIUM
                 (STRONTIUM OR STRONTIUMS)
          2600 HEXAFERRITE
          1219 HEXAFERRITES
          2971 HEXAFERRITE
                 (HEXAFERRITE OR HEXAFERRITES)
L1
          472 STRONTIUM HEXAFERRITE
                (STRONTIUM(W)HEXAFERRITE)
=> s emulsion
        209690 EMILSTON
        127556 EMULSIONS
L2
        253377 EMULSION
                 (EMULSION OR EMULSIONS)
=> s cosmetic
        62520 COSMETIC
         67531 COSMETICS
         87058 COSMETIC
                 (COSMETIC OR COSMETICS)
=> s dermato?
        18150 DERMATO?
=> s 13 or 14
       102125 L3 OR L4
=> s 11 and 12 and 15
             2 L1 AND L2 AND L5
=> d ibib abs hit.
   ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
                         2007:1352035 CAPLUS <<LOGINID::20071210>>
                         Ultrasound-assisted dispersion of SrFe12019
TITLE:
                         nanoparticles in organic solvents and the use of the
                         dispersion as magnetic cosmetics
AUTHOR(S):
                         Perelshtein, I.; Perkas, N.; Magdassi, Sh.; Zioni, T.;
                         Royz, M.; Maor, Z.; Gedanken, A.
CORPORATE SOURCE:
                         Department of Chemistry and Kanbar Laboratory for
                         Nanomaterials at the Bar-Ilan University Center for
                         Advanced Materials and Nanotechnology, Bar-Ilan
                         University, Ramat-Gan, 52900, Israel
SOURCE:
                         Journal of Nanoparticle Research (2008), 10(1),
                         191-195
                         CODEN: JNARFA; ISSN: 1388-0764
PUBLISHER:
                         Springer
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
   A new method of dispersing the aggregated strontium
     hexaferrite (SrFe12019) magnetic nanoparticles in organic solvents
     such as propylene glycol monomethyl ether acetate (PGMEA), propylene
```

glycol (PG), and glycerol, by an ultrasonic bath is reported herein. The particles size of SFFel2019 after treatment with the PGMEA is in the range 70-100 nm. The structure of dispersed SFFel2019 was characterized using transmission electron microscopy (TEM), high resolution SEM (HR SEM) and thermo gravimetric anal. (TGA). This dispersed material was used for the preparation of a topical magnetic cosmetic product as follows: The dispersion of SFFel2019 in PG was mixed with "Dermud-Ahava Body Cream", an oil in water' emulsion of a Dead Sea mineral cosmetic, "ARAYA", and the magnetic properties of the created composite were determined

"AHAVA", and the magnetic properties of the created composite were determined The ferrimagnetic behavior of the composite has been demonstrated as being very similar to the behavior of strontium hexaferrite itself.

- TI Ultrasound-assisted dispersion of SrFe12019 nanoparticles in organic solvents and the use of the dispersion as magnetic cosmetics
 - A new method of dispersing the aggregated strontium hexaferrite (SrFel2019) magnetic nanoparticles in organic solvents such as propylene glycol monomethyl ether acetate (PGMEA), propylene glycol (PG), and glycerol, by an ultrasonic bath is reported herein. The particles size of SrFel2019 after treatment with the PGMEA is in the range 70-100 nm. The structure of dispersed SrFel2019 was characterized using transmission electron microscopy (TEM), high resolution SEM (RR SEM) and thermo gravimetric anal. (TGA). This dispersed material was used for the preparation of a topical magnetic cosmetic product as follows: The dispersion of SrFel2019 in PG was mixed with "Dermud-Ahava Body Cream", an oil in water' emulsion of a Dead Sea mineral cosmetic, "AKAVA", and the magnetic properties of the created composite were determined The ferrimagnetic behavior of the composite has been demonstrated as being very similar to the behavior of strontium hexaferrite

=> d ibib abs hit 2

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:101322 CAPLUS <<LOGINID::20071210>>

DOCUMENT NUMBER: 130:158276

TITLE: Cosmetic compositions with agglomerated

substrates

INVENTOR(S): Golz-Berner, Karin; Zastrow, Leonhard

PATENT ASSIGNEE(S): Lancaster Group G.m.b.H., Germany SOURCE: Ger. Offen., 6 pp.

Ger. Offen., 6 pp. CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
DE 19734547	A1	19990204	DE 1997-19734547	19970801			
DE 19734547	B4	20040819					
CA 2294933	A1	19990211	CA 1998-2294933	19980721			
WO 9906012	A2	19990211	WO 1998-DE2087	19980721			
WO 9906012	A3	19990422					

W: AU, BR, CA, CN, CZ, HU, JP, KR, MX, NZ, PL, SG, SK, UA, US, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

	RW:	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	FR	, GI	3, G	R,	IE,	IT,	LU,	MC,	NL
		PT,	SE															
AU	9894	308			A		1999	0222	- 1	ΑU	1998	3-94	308	3		1	9980	721
EP	1003	463			A2		2000	0531	1	EP	1998	3-94	732	29		1	9980	721
EP	1003	463			В1		2002	0612										
	R:	DE,	ES,	FR,	GB,	IT,	MC											
JP	2001	5114	35		T		2001	0814		JP	2000	-50	482	29		1	9980	721
ES	2175	782			Т3		2002	1116	1	ES	1998	3-94	732	29		1	9980	721
CN	1120	699			В		2003	0910		CN	1998	3-80	766	50		1	9980	721
PL	1933	84			В1		2007	0228	1	PL	198	7-33	81			1	9980	721
US	6309	627			В1		2001	1030	1	US	2000	-46	387	78		2	0000	131
PRIORIT	APP:	LN.	INFO	. :					1	DΕ	199	7-19	734	1547	- 1	A 1	9970	801
									1	ΝO	1998	-DE	208	37	1	v 1	9980	721

- Sunscreen compns. containing spherical inorg. oxide particles are stabilized AR by addition of spherical, nonporous SiO2 particles 0.05-1.5 µm in diameter which aggregate with the oxide particles to produce particles 0.06-5 μm in size. Compns. containing agglomerated particles in this size range spread very smoothly on the skin, reflect UV radiation very well, and provide a sun protection factor at least as high as that of other inorg. pigment-containing sunscreens with greater stability. Thus, monodisperse, nonporous, spherical SiO2 particles 0.1 um in size were mixed in a proportion of 1:30 with spherical TiO2 particles in the dry state at 35-36° and 140 rpm for 8 min, followed by addition of water and stirring at 320 rpm for 30 min to form a paste. After addition of more water, the mixture was homogenized at 3800 rpm for 20 min to produce a dispersion (viscosity .apprx.23,000 cP s) of agglomerated particles with a mean size of 0.95 μm which was used to prepare a liquid make-up (sun protection factor 15).
- TI Cosmetic compositions with agglomerated substrates
- ST cosmetic inorg oxide particle agglomerate; silica microsphere
- pigment agglomerate sunscreen
- IT Addlomerates (clustered mass)

Cosmetics

Microspheres

Sunscreens

- (cosmetic compns. with agglomerated substrates)
- (creams; cosmetic compns. with agglomerated substrates)
- IT Cosmetics
 - (emulsions, sunscreen; cosmetic compns. with acclomerated substrates)
- IT Cosmetics
- (face packs; cosmetic compns. with agglomerated substrates)
- IT Cosmetics
- (gels; cosmetic compns. with agglomerated substrates)
- IT Magnetic materials
 - (hard, barium and strontium hexaferrites; cosmetic compns. with agglomerated substrates)
- IT Cosmetics
- (lipsticks; cosmetic compns. with agglomerated substrates)
- IT Cosmetics
- (lotions; cosmetic compns. with agglomerated substrates)
- (makeups; cosmetic compns. with agglomerated substrates)
 - Inorganic compounds Oxides (inorganic), biological studies

- RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (microspheres; cosmetic compns. with agglomerated substrates)
- IT Crystals
 - (of barium and strontium hexaferrites; cosmetic compns. with applomerated substrates)
- IT Cosmetics
 - (powders, sunscreen; cosmetic compns. with agglomerated substrates)
- IT 12023-91-5, Iron strontium oxide (Fel2Sr019) 12047-11-9, Barium hexaferrite
 - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 - (hard magnetic single crystals; cosmetic compns. with agglomerated substrates)
- II 3314-13-2, Zinc oxide, biological studies 1314-23-4, Zirconium dioxide, biological studies 1332-37-2, Iron oxide, biological studies 13463-67-7, Titanium dioxide, biological studies
 - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (microspheres; cosmetic compns. with agglomerated substrates)
 IT 7631-86-9, Silica, biological studies
- RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 - (nonporous microspheres; cosmetic compns. with agglomerated substrates)